

1 Claim 32 (new) The apparatus of claim 18 (new) in which the one or more sensors, electrical  
2 device and energy source are radiation hard, for operation of the apparatus in environments containing  
3 radioactive substance.

1 Claim 33 (new) The apparatus of claim 25 (new) in which the isolation material isolates the one  
2 or more sensors, electrical device and energy source from environmental radiation during operation of the  
3 apparatus in an environment containing radioactive substance.

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### REMARKS

#### Remark 1:

A Request for Updated Filing Receipt is filed concurrently herewith. The Request is intended to correct the address of the Applicant. Applicant respectfully requests Examiner withdraw the rejection of the Declaration.

#### Remark 2:

A Substitute Declaration and Power of Attorney is filed concurrently herewith. The Substitute Declaration, which also contains a Power of Attorney, is intended to overcome the objections of the Examiner. Applicant respectfully requests Examiner withdraw the rejection of the Declaration.

#### Remark 3:

Please cancel the initial page 1 of the Specification. Examiner will note that the prior art referenced thereon is submitted on an Information Disclosure Statement filed concurrently herewith. Applicant respectfully requests Examiner withdraw the objection to the Disclosure based on that informality.

**Remark 4:**

Proposed First Substitute drawings Sheets 1-4 are submitted concurrently herewith. The suggested changes to FIGS. 1 and 4 have been made, and an additional change to FIG. 2 is proposed to conform the drawing to FIG. 3 as filed and FIG. 4 as re-submitted in compliance with Examiner's suggestion. Applicant respectfully requests Examiner withdraw the objections to the Drawings.

**Remark 5:**

Originally filed Claims 1-17 are cancelled herein, and replaced with new Claims 17-33 (new). The new claims are intended to overcome the rejections based on 35 USC 112 and informalities. Applicant respectfully requests Examiner withdraw the rejections of the Claims.

**Remark 6:**

Proposed First Substitute drawings Sheets 1-4 are submitted concurrently herewith. FIG. 3 has been amended to show the electronic device of the apparatus of the present invention having an A to D convertor, signal conditioning device and solid state memory. The isolation/insulation material 14 is shown in FIGS. 2, 3 and 4. Applicant respectfully requests Examiner withdraw the objections to the Drawings.

**Remark 7:**

With all due respect, Applicant hereby respectfully requests Examiner withdraw Moslehi US 5,270,222 and Renken et al. US 5,967,661 and Melcher 5,015,951, as well as the remaining references cited by Examiner, as anticipating or obviating references, either alone or in any combination, to the present, claimed invention, as amended herein. As stated by Examiner, Moslehi does not disclose attaching sensor, recording device and energy source to a surface of the capital good. Additionally,

Renken et al., US Patent No. 5,967,661, uses direct contact thermocouples, resistors and silicon diodes for measuring semiconductor wafer temperature.

### CONCLUSION

Applicant respectfully submits that for all the foregoing reasons, the claimed subject matter describes patentable invention. Furthermore, Applicant submits that the specification is adequate and that the claims are in a condition for allowance. No new matter has been entered.

Applicant hereby respectfully requests Examiner to withdraw the cited references as anticipating or obviating prior art, enter these amendments, find them descriptive of useful, novel and non-obvious subject matter, and authorize the issuance of a utility patent for the truly meritorious, deserving invention disclosed and claimed herein.

Without further, Applicant does not intend to waive any claims, arguments or defenses that they may have in response to any official or informal communication, paper, office action, or otherwise, and they expressly reserve the right to assert any traverse, additional grounds establishing specificity and clarity, enablement, novelty, uniqueness, non-obviousness, or other patentability, etc.

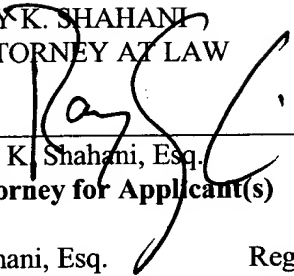
Further, nothing herein shall be construed as establishing indirectly the basis for any prosecution history, file wrapper estoppel, or similar in order to limit or bar any claim of infringement of the invention described herein, either directly or under applicable doctrine of equivalents.

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Respectfully submitted,

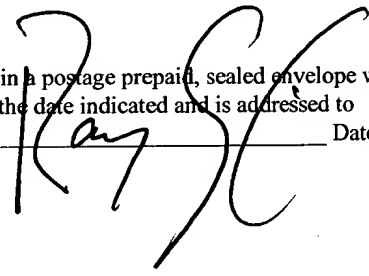
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Dated: October 14, 2002

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**CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents attached hereto are being deposited in a postage prepaid, sealed envelope with the United States Postal Service using First Class Mail service under 37 CFR 1.08 on the date indicated and is addressed to "Commissioner of Patents and Trademarks, Washington, D.C. 20231". Signed:  Date  
Mailed: October 14, 2002

Marked-Up Version(s) of Replacement Paragraph(s)  
37 CFR 1.21(b)(1)(iii)

none

Marked-Up Version(s) of Amended Claim(s)  
37 CFR 1.21(c)(1)(ii)

none